IN THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the above-referenced application.

1. (Previously Presented) A method for fabricating a light-emitting semiconductor device including a III-Nitride light emitting layer, said method comprising: selecting a facet orientation of said III-Nitride light emitting layer to control a field strength of a piezoelectric field therein; and

growing said III-Nitride light emitting layer with a wurtzite crystal structure with said selected facet orientation, said selected facet orientation being tilted at least 10° from the {0001} direction of said wurtzite crystal structure.

- 2. (Previously Presented) The method of Claim 1, further comprising selecting said facet orientation to reduce a magnitude of an electric field strength in said light emitting layer.
 - 3. (Canceled).
 - 4. (Canceled).
- 5. (Previously Presented) The method of Claim 1, further comprising growing said light emitting layer with a wurtzite crystal structure with said selected facet orientation tilted from the {0001} direction of said wurtzite crystal structure at an angle selected from about 30° to about 50°, about 80° to about 100°, and about 130° to about 150°.
- 6. (Previously Presented) A method for fabricating a light-emitting semiconductor device including a III-Nitride light emitting layer, said method comprising: selecting a facet orientation of said III-Nitride light emitting layer to control a field

strength of a piezoelectric field therein; and

growing said III-Nitride light emitting layer with a zincblende crystal structure with said selected facet orientation, said sclected facet orientation being tilted at least 1° from the Serial No. 09/992,192

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- {111} direction of said zincblende crystal structure.
- 7. (Previously Presented) The method of Claim 1, further comprising growing a nucleation layer directly on a substrate surface, and growing said light emitting layer above said nucleation layer.
- 8. (Original) The method of Claim 7, further comprising selecting said substrate surface to have a lattice mismatch of less than about 10% with a material from which said nucleation layer is formed.
- (Original) The method of Claim 7, further comprising growing said 9. nucleation layer by metal-organic chemical vapor deposition at a temperature such that a crystal structure of said nucleation layer substantially replicates a crystal structure of said substrate surface.
- (Original) The method of Claim 7, further comprising selecting a material 10. from which said substrate is formed from the group consisting of SiC, AlN, and GaN.
- 11. (Original) The method of Claim 7, wherein said nucleation layer comprises a III-Nitride material.
- 12. (Previously Presented) The method of Claim 1, further comprising: growing a first semiconductor layer above a substrate, said first semiconductor layer being grown with a first facet orientation different from said selected facet orientation;

altering an exposed surface of said first semiconductor layer to provide a surface having said selected facet orientation; and

growing said light emitting layer above said surface having said selected facet

- orientation.
- (Original) The method of Claim 12, wherein altering said exposed surface comprises selectively etching said first semiconductor layer.
 - 14. (Previously Presented) The method of Claim 12, further comprising growing -3-Serial No. 09/992,192

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a second semiconductor layer above said light emitting layer, said second semiconductor layer being grown with a facet orientation about equal to said first facet orientation.

15-19. (Canceled).

22.

20. (Previously Presented) A method for fabricating a light-emitting semiconductor device including a III-Nitride light emitting layer, said method comprising: selecting a facet orientation of said III-Nitride light emitting layer to control a field strength of a spontaneous electric field therein; and

growing said III-Nitride light emitting layer with a wurtzite crystal structure with said selected facet orientation, said selected facet orientation being tilted at least 10° from the {0001} direction of said wurtzite crystal structure.

21. (Previously Presented) The method of Claim 20, further comprising selecting said facet orientation to reduce a magnitude of an electric field strength in said light emitting layer.

(Previously Presented) A method for fabricating a light-emitting

semiconductor device including a III-Nitride light emitting layer, said method comprising:
selecting a facet orientation of said III-Nitride light emitting layer to reduce a
magnitude of a combined field strength of a piezoelectric field and a spontaneous electric
field therein; and

growing said III-Nitride light emitting layer with a wurtzite crystal structure with said selected facet orientation, said selected facet orientation being tilted at least 10° from the {0001} direction of said wurtzite crystal structure.

23. (Previously Presented) The method of Claim 22 further comprising growing said light emitting layer with a wurtzite crystal structure with said selected facet orientation tilted from the {0001} direction of said wurtzite crystal structure at an angle selected from about 80° to about 100°.

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- 24. (Previously Presented) The method of Claim 1 wherein said selected facet orientation is tilted about 90° from the {0001} direction of said wurtzite crystal structure.
- 25. (Previously Presented) The method of Claim 1 wherein said selected facet orientation is the a-plane.
- 26. (Previously Presented) The method of Claim 1 wherein said selected facet orientation is the m-plane.
- 27. (Previously Presented) The method of Claim 1 wherein said light emitting layer is a quantum well layer.
- 28. (New) The method of Claim 1 wherein said selected facet orientation is the {1120} plane.
- 29. (New) The method of Claim 1 wherein said selected facet orientation is the $\{10\overline{1}0\}$ plane.

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